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APPLICATION NO.	FILING DATE	FIR	ST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,922	08/26/2003		Hiroki Tanaka	926530-94720	2436
	7590 05/19/2004		EXAMINER		
Robert F. I. Conte Barnes & Thornburg				CLARK, SHEILA V	
P.O. Box 278	36	•		ART UNIT	PAPER NUMBER
Chicago, IL	60690-2786			2815	
	•		•	DATE MAILED, 05/10/2004	-

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
055 4-55 0	10/647,922	TANAKA ET AL.	
Office Action Summary	Examiner	Art Unit	
<u> </u>	S. V. Clark	2815	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR RETHER MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by set Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may n. a reply within the statutory minimum of teriod will apply and will expire SIX (6) M tatute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this comi	munication.
Status			*
1) Responsive to communication(s) filed on			
	This action is non-final.		•
3) Since this application is in condition for all		atters, prosecution as to the n	nerits is
closed in accordance with the practice und	•	• •	Tionto is
olocod in decordance with the practice and	ioi Ex parto Quayro, 1000 C	.5. 11, 400 0.0. 210.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applica	tion.		.
4a) Of the above claim(s) is/are with	,		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,5 and 9</u> is/are rejected.			
7) Claim(s) <u>2-4, 6-8 and 10-12</u> is/are objected	l to.		
8) Claim(s) are subject to restriction a			
Application Papers	,		
9) The specification is objected to by the Exar	niner.		
10) The drawing(s) filed on is/are: a)	the state of the s	to by the Examiner.	
Applicant may not request that any objection to			•
Replacement drawing sheet(s) including the co			! 1.121(d).
11) The oath or declaration is objected to by th	e Examiner. Note the attach	ned Office Action or form PTO)-152.
Priority under 35 U.S.C. § 119	• • • • • • • • • • • • • • • • • • •		•
12) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☒ None of:			
 Certified copies of the priority document 	nents have been received.		
2. Certified copies of the priority document	nents have been received in	Application No	
3. Copies of the certified copies of the	priority documents have been	en received in this National St	tage 🔯
application from the International Bu	reau (PCT Rule 17.2(a)).		٠
* See the attached detailed Office action for a	list of the certified copies n	ot received.	·
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Attachment(s)	'		
1) 🗵 Notice of References Cited (PTO-892)		w Summary (PTO-413)	·
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	,	lo(s)/Mail Date of Informal Patent Application (PTO-1	152)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date <u>8-27-2003</u>. 	3/08) 5) ☐ Notice C 6) ☐ Other: _		J2)

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 5, 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Otaka et al (Japanese patent 2002-118217).

Otaka et al shows a tape substrate 1 having a first wiring pattern 102A formed on a surface and a second wiring pattern 103 is shown formed on an other surface a conduction part a conduction part 107 can be seen in a via connecting a first and second wiring. A stiffener 3 in the form of a heat sink is shown and an insulating material 108 is shown filling a groove region where no wiring pattern is formed around the patterns of the second wiring pattern.

The steps if forming and adhering are deemed to be taught by Otaka et al and figures 9 and 10 show the adhering of the substrate (figure 11) conducted after a filling step.

Claims 1, 5, 9 are rejected.

Claims 2-4, 6-8, 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Ohta et al, Massingill, Schueller et al, Niwa, Yukawa, Shibamoto et al, Honda, Hashimoto, Karnezos and Japanese references (2002-124549;2001-

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110936, 2002-16175) and cited to show first and second wiring and stiffener means.

Any inquiry concerning this communication should be directed to S. V.

Clark at telephone number (571) 272-1725.

S. V. Clark Primary Examiner

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May 14, 2004